

ANALYTICAL REPORT

Job Number: 720-24254-1

Job Description: Aspire Oakland

For:

LFR, Inc.

1900 Powell St 12th Floor
Emeryville, CA 94608-1827

Attention: Mr. Ron Goloubow



Approved for release.
Afsaneh Salimpour
Project Manager I
11/25/2009 1:55 PM

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11/25/2009

CA ELAP Certification # 2496

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A trip blank is required to be provided for volatile analyses. If trip blank results are not included in the report, either the trip blank was not submitted or requested to be analyzed.

TestAmerica Laboratories, Inc.

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Job Narrative
720-24254-1

Comments

No additional comments.

Receipt

No sample times on COC.

All other samples were received in good condition within temperature requirements.

GC Semi VOA

Method(s) 8015B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 61940 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 8082: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: EXC TPH/PCB1 N-SDWALL2'-SOUTH-R (720-24254-2).

Method(s) 8082: CCV surrogate (DCB) recovery was below lower control limits due to possible matrix interference. Surrogate recoveries in all samples were within control limits, therefore the data have been reported.

Method(s) 8082: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 61912 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 8082: The continuing calibration verification (CCV) for AR1016 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: LFR, Inc.

Job Number: 720-24254-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-24254-2	EXC TPH/PCB1 W-SDWALL2'-SOUTH-R				
Diesel Range Organics [C10-C28]		400	0.99	mg/Kg	8015B
Motor Oil Range Organics [C24-C36]		140	49	mg/Kg	8015B
PCB-1260		7500	5000	ug/Kg	8082

METHOD SUMMARY

Client: LFR, Inc.

Job Number: 720-24254-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Diesel Range Organics (DRO) (GC)	TAL SF	SW846 8015B	
Ultrasonic Extraction	TAL SF		SW846 3550B
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL SF	SW846 8082	
Ultrasonic Extraction	TAL SF		SW846 3550B

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: LFR, Inc.

Job Number: 720-24254-1

Method	Analyst	Analyst ID
SW846 8015B	Vincent, Richard	RV
SW846 8082	Cavalli, Evan	EC

SAMPLE SUMMARY

Client: LFR, Inc.

Job Number: 720-24254-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-24254-1	EXC TPH/PCB1 N-SDWALL2'-WEST-R	Solid	11/21/2009 0000	11/23/2009 1035
720-24254-2	EXC TPH/PCB1 W-SDWALL2'-SOUTH-R	Solid	11/21/2009 0000	11/23/2009 1035

Analytical Data

Client: LFR, Inc.

Job Number: 720-24254-1

Client Sample ID: EXC TPH/PCB1 N-SDWALL2'-WEST-R

Lab Sample ID: 720-24254-1

Date Sampled: 11/21/2009 0000

Client Matrix: Solid

Date Received: 11/23/2009 1035

8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-61940	Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-61909	Initial Weight/Volume:	30.05 g
Dilution:	1.0		Final Weight/Volume:	5 mL
Date Analyzed:	11/24/2009 1213		Injection Volume:	1 uL
Date Prepared:	11/23/2009 1337		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		1.0
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	95		31 - 114

Analytical Data

Client: LFR, Inc.

Job Number: 720-24254-1

Client Sample ID: EXC TPH/PCB1 W-SDWALL2'-SOUTH-R

Lab Sample ID: 720-24254-2

Date Sampled: 11/21/2009 0000

Client Matrix: Solid

Date Received: 11/23/2009 1035

8015B Diesel Range Organics (DRO) (GC)

Method:	8015B	Analysis Batch: 720-61940	Instrument ID:	CHDRO5
Preparation:	3550B	Prep Batch: 720-61909	Initial Weight/Volume:	30.38 g
Dilution:	1.0		Final Weight/Volume:	5 mL
Date Analyzed:	11/24/2009 1240		Injection Volume:	1 uL
Date Prepared:	11/23/2009 1337		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		400		0.99
Motor Oil Range Organics [C24-C36]		140		49

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	82		31 - 114

Analytical Data

Client: LFR, Inc.

Job Number: 720-24254-1

Client Sample ID: EXC TPH/PCB1 N-SDWALL2'-WEST-R

Lab Sample ID: 720-24254-1

Date Sampled: 11/21/2009 0000

Client Matrix: Solid

Date Received: 11/23/2009 1035

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 720-61960	Instrument ID:	CHPCB # 2
Preparation:	3550B	Prep Batch: 720-61912	Initial Weight/Volume:	30.75 g
Dilution:	1.0		Final Weight/Volume:	10 mL
Date Analyzed:	11/24/2009 1350		Injection Volume:	1 uL
Date Prepared:	11/23/2009 1347		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
PCB-1016		ND		49
PCB-1221		ND		49
PCB-1232		ND		49
PCB-1242		ND		49
PCB-1248		ND		49
PCB-1254		ND		49
PCB-1260		ND		49

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	78		32 - 112
DCB Decachlorobiphenyl	80		2 - 122

Analytical Data

Client: LFR, Inc.

Job Number: 720-24254-1

Client Sample ID: EXC TPH/PCB1 W-SDWALL2'-SOUTH-R

Lab Sample ID: 720-24254-2

Date Sampled: 11/21/2009 0000

Client Matrix: Solid

Date Received: 11/23/2009 1035

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method:	8082	Analysis Batch: 720-61960	Instrument ID:	CHPCB # 2
Preparation:	3550B	Prep Batch: 720-61912	Initial Weight/Volume:	30.28 g
Dilution:	100		Final Weight/Volume:	10 mL
Date Analyzed:	11/25/2009 0658		Injection Volume:	1 uL
Date Prepared:	11/23/2009 1347		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
PCB-1016		ND		5000
PCB-1221		ND		5000
PCB-1232		ND		5000
PCB-1242		ND		5000
PCB-1248		ND		5000
PCB-1254		ND		5000
PCB-1260		7500		5000

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	0	D	32 - 112
DCB Decachlorobiphenyl	0	D	2 - 122

DATA REPORTING QUALIFIERS

Client: LFR, Inc.

Job Number: 720-24254-1

Lab Section	Qualifier	Description
GC Semi VOA	F	MS or MSD exceeds the control limits
	F	RPD of the MS and MSD exceeds the control limits
	D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

Quality Control Results

Client: LFR, Inc.

Job Number: 720-24254-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 720-61909					
LCS 720-61909/2-A	Lab Control Sample	T	Solid	3550B	
LCSD 720-61909/3-A	Lab Control Sample Duplicate	T	Solid	3550B	
MB 720-61909/1-A	Method Blank	T	Solid	3550B	
720-24254-1	EXC TPH/PCB1	T	Solid	3550B	
	N-SDWALL2'-WEST-R				
720-24254-2	EXC TPH/PCB1	T	Solid	3550B	
	W-SDWALL2'-SOUTH-R				
720-24254-2MS	Matrix Spike	T	Solid	3550B	
720-24254-2MSD	Matrix Spike Duplicate	T	Solid	3550B	
Prep Batch: 720-61912					
LCS 720-61912/2-A	Lab Control Sample	T	Solid	3550B	
LCSD 720-61912/3-A	Lab Control Sample Duplicate	T	Solid	3550B	
MB 720-61912/1-A	Method Blank	T	Solid	3550B	
720-24254-1	EXC TPH/PCB1	T	Solid	3550B	
	N-SDWALL2'-WEST-R				
720-24254-2	EXC TPH/PCB1	T	Solid	3550B	
	W-SDWALL2'-SOUTH-R				
720-24255-A-3-E MS	Matrix Spike	T	Solid	3550B	
720-24255-A-3-F MSD	Matrix Spike Duplicate	T	Solid	3550B	
Analysis Batch:720-61940					
LCS 720-61909/2-A	Lab Control Sample	T	Solid	8015B	720-61909
LCSD 720-61909/3-A	Lab Control Sample Duplicate	T	Solid	8015B	720-61909
MB 720-61909/1-A	Method Blank	T	Solid	8015B	720-61909
720-24254-1	EXC TPH/PCB1	T	Solid	8015B	720-61909
	N-SDWALL2'-WEST-R				
720-24254-2	EXC TPH/PCB1	T	Solid	8015B	720-61909
	W-SDWALL2'-SOUTH-R				
720-24254-2MS	Matrix Spike	T	Solid	8015B	720-61909
720-24254-2MSD	Matrix Spike Duplicate	T	Solid	8015B	720-61909
Analysis Batch:720-61960					
LCS 720-61912/2-A	Lab Control Sample	T	Solid	8082	720-61912
LCSD 720-61912/3-A	Lab Control Sample Duplicate	T	Solid	8082	720-61912
MB 720-61912/1-A	Method Blank	T	Solid	8082	720-61912
720-24254-1	EXC TPH/PCB1	T	Solid	8082	720-61912
	N-SDWALL2'-WEST-R				
720-24254-2	EXC TPH/PCB1	T	Solid	8082	720-61912
	W-SDWALL2'-SOUTH-R				
720-24255-A-3-E MS	Matrix Spike	T	Solid	8082	720-61912
720-24255-A-3-F MSD	Matrix Spike Duplicate	T	Solid	8082	720-61912

Report Basis

T = Total

TestAmerica San Francisco

Quality Control Results

Client: LFR, Inc.

Job Number: 720-24254-1

Method Blank - Batch: 720-61909

Method: 8015B
Preparation: 3550B

Lab Sample ID: MB 720-61909/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/24/2009 1119
Date Prepared: 11/23/2009 1337

Analysis Batch: 720-61940
Prep Batch: 720-61909
Units: mg/Kg

Instrument ID: HP DRO5
Lab File ID: 5a1124010.d
Initial Weight/Volume: 30.47 g
Final Weight/Volume: 5 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		0.98
Motor Oil Range Organics [C24-C36]	ND		49

Surrogate	% Rec	Acceptance Limits
p-Terphenyl	100	31 - 114

Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 720-61909

Method: 8015B
Preparation: 3550B

LCS Lab Sample ID: LCS 720-61909/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/24/2009 1025
Date Prepared: 11/23/2009 1337

Analysis Batch: 720-61940
Prep Batch: 720-61909
Units: mg/Kg

Instrument ID: HP DRO5
Lab File ID: 5a1124008.d
Initial Weight/Volume: 30.09 g
Final Weight/Volume: 5 mL
Injection Volume: 1 uL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-61909/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/24/2009 1052
Date Prepared: 11/23/2009 1337

Analysis Batch: 720-61940
Prep Batch: 720-61909
Units: mg/Kg

Instrument ID: HP DRO5
Lab File ID: 5a1124009.d
Initial Weight/Volume: 30.17 g
Final Weight/Volume: 5 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Diesel Range Organics [C10-C28]	87	92	49 - 115	5	35		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
p-Terphenyl	94		99		31 - 114		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: LFR, Inc.

Job Number: 720-24254-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 720-61909

Method: 8015B

Preparation: 3550B

MS Lab Sample ID: 720-24254-2
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 11/24/2009 1307
 Date Prepared: 11/23/2009 1337

Analysis Batch: 720-61940
 Prep Batch: 720-61909

Instrument ID: HP DRO5
 Lab File ID: 5a1124014.d
 Initial Weight/Volume: 30.16 g
 Final Weight/Volume: 5 mL
 Injection Volume: 1 uL
 Column ID: PRIMARY

MSD Lab Sample ID: 720-24254-2
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 11/24/2009 1334
 Date Prepared: 11/23/2009 1337

Analysis Batch: 720-61940
 Prep Batch: 720-61909

Instrument ID: HP DRO5
 Lab File ID: 5a1124015.d
 Initial Weight/Volume: 30.15 g
 Final Weight/Volume: 5 mL
 Injection Volume: 1 uL
 Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Diesel Range Organics [C10-C28]	22	46	50 - 130	9	30	F	F
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
p-Terphenyl	79		85	31 - 114			

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: LFR, Inc.

Job Number: 720-24254-1

Method Blank - Batch: 720-61912

Lab Sample ID: MB 720-61912/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/24/2009 1244
Date Prepared: 11/23/2009 1347

Analysis Batch: 720-61960
Prep Batch: 720-61912
Units: ug/Kg

Method: 8082 Preparation: 3550B

Instrument ID: Agilent PCB 2
Lab File ID: m1124006.d
Initial Weight/Volume: 30.13 g
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	RL
PCB-1016	ND		50
PCB-1221	ND		50
PCB-1232	ND		50
PCB-1242	ND		50
PCB-1248	ND		50
PCB-1254	ND		50
PCB-1260	ND		50
Surrogate	% Rec	Acceptance Limits	
Tetrachloro-m-xylene	90	32 - 112	
DCB Decachlorobiphenyl	88	2 - 122	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: LFR, Inc.

Job Number: 720-24254-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-61912**

**Method: 8082
Preparation: 3550B**

LCS Lab Sample ID: LCS 720-61912/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/24/2009 1306
Date Prepared: 11/23/2009 1347

Analysis Batch: 720-61960
Prep Batch: 720-61912
Units: ug/Kg

Instrument ID: Agilent PCB 2
Lab File ID: m1124007.d
Initial Weight/Volume: 30.07 g
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-61912/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/24/2009 1328
Date Prepared: 11/23/2009 1347

Analysis Batch: 720-61960
Prep Batch: 720-61912
Units: ug/Kg

Instrument ID: Agilent PCB 2
Lab File ID: m1124008.d
Initial Weight/Volume: 30.21 g
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
PCB-1016	99	101	69 - 120	2	20		
PCB-1260	102	102	73 - 114	0	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
Tetrachloro-m-xylene	90		90		32 - 112		
DCB Decachlorobiphenyl	88		89		2 - 122		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: LFR, Inc.

Job Number: 720-24254-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-61912**

**Method: 8082
Preparation: 3550B**

MS Lab Sample ID: 720-24255-A-3-E MS
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/24/2009 1539
Date Prepared: 11/23/2009 1347

Analysis Batch: 720-61960
Prep Batch: 720-61912

Instrument ID: Agilent PCB 2
Lab File ID: m1124014.d
Initial Weight/Volume: 30.57 g
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

MSD Lab Sample ID: 720-24255-A-3-F MSD
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/24/2009 1601
Date Prepared: 11/23/2009 1347

Analysis Batch: 720-61960
Prep Batch: 720-61912

Instrument ID: Agilent PCB 2
Lab File ID: m1124015.d
Initial Weight/Volume: 30.55 g
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	<u>% Rec.</u>		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
PCB-1016	44	34	69 - 120	26	20	F	F
PCB-1260	29	24	73 - 114	12	20	F	F
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
Tetrachloro-m-xylene	50		38	32 - 112			
DCB Decachlorobiphenyl	27		21	2 - 122			

Calculations are performed before rounding to avoid round-off errors in calculated results.

Login Sample Receipt Check List

Client: LFR, Inc.

Job Number: 720-24254-1

Login Number: 24254

List Source: TestAmerica San Francisco

Creator: Mullen, Joan

List Number: 1

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	